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more phospholipids selected from phosphatidylserines, phosphatidylglycerols, phosphatidylinositols, phosphatidic acids and cardiolipins.

5 8. An agent as claimed in claim 7 wherein at least 80% of said phospholipids comprise phosphatidylserines.

10 9. An agent as claimed in any of the preceding claims wherein the film-forming surfactant material comprises a lipopeptide.

15 10. An agent as claimed in any of the preceding claims wherein the vector is selected from antibodies; cell adhesion molecules; cell adhesion molecule receptors; cytokines; growth factors; peptide hormones and pieces thereof; non-peptide agonists/antagonists and non-bioactive binders of receptors for cell adhesion molecules, cytokines, growth factors and peptide hormones; oligonucleotides and modified
20 oligonucleotides; DNA-binding drugs; protease substrates/inhibitors; molecules generated from combinatorial libraries; and small bioactive molecules.

25 11. An agent as claimed in any of the preceding claims wherein the vector or vectors have affinity for targets at a level such that the agent interacts with but does not fixedly bind to said targets.

30 12. An agent as claimed in claim 11 wherein the vector or vectors are selected from ligands for cell adhesion proteins and cell adhesion proteins which have corresponding ligands on endothelial cell surfaces.

35 13. An agent as claimed in any of the preceding claims wherein the vector or vectors are sited such that they are not readily exposed to the target.

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14. An agent as claimed in any of the preceding claims wherein the vector is covalently coupled or linked to the reporter.

5 15. An agent as claimed in any of claims 1 to 13 wherein the vector is coupled or linked to the reporter through electrostatic charge interactions.

10 16. An agent as claimed in any of claims 1 to 13 wherein the vector is coupled or linked to the reporter by means of avidin-biotin and/or streptavidin-biotin interactions.

15 17. An agent as claimed in any of the preceding claims which further contains moieties which are radioactive or are effective as X-ray contrast agents, light imaging probes or spin labels.

20 18. An agent as claimed in any one of the preceding claims further comprising a therapeutic compound.

25 19. An agent as claimed in claim 18 wherein said therapeutic compound is an antineoplastic agent, blood product, biological response modifier, antifungal agent, hormone or hormone analogue, vitamin, enzyme, antiallergic agent, tissue factor inhibitor, platelet inhibitor, coagulation protein target inhibitor, fibrin formation inhibitor, fibrinolysis promoter, antiangiogenic, circulatory drug, metabolic potentiator, 30 antitubercular, antiviral, vasodilator, antibiotic, antiinflammatory, antiprotozoan, antirheumatic, narcotic, opiate, cardiac glycoside, neuromuscular blocker, sedative, local anaesthetic, general anaesthetic or genetic material.

35 20. An agent as claimed in claim 18 or claim 19 wherein said therapeutic compound is covalently coupled or

linked to the reporter through disulphide groups.

5 21. An agent as claimed in claim 18 or claim 19 wherein a lipophilic or lipophilically-derivatised therapeutic compound is linked to the surfactant monolayers stabilising the gas-filled microbubbles of the reporter through hydrophobic interactions.

10 22. A combined formulation comprising:

i) a first administrable composition comprising a pre-targeting vector having affinity for a selected target; and

15 ii) a second administrable composition comprising an agent as claimed in any of the preceding claims, said agent comprising a vector having affinity for said pre-targeting vector.

20 23. A combined formulation as claimed in claim 22 wherein said pre-targeting vector is a monoclonal antibody.

24. A combined formulation comprising:

i) a first administrable composition comprising an agent as claimed in any of claims 1 to 21; and

25 ii) a second administrable composition comprising a substance capable of displacing or releasing said agent from its target.

25. A combined formulation comprising:

30 i) a first administrable composition comprising an agent as claimed in claim 20; and

35 ii) a second administrable composition comprising a reducing agent capable of reductively cleaving the disulphide groups coupling or linking the therapeutic compound and reporter in the agent of said first administrable composition.

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26. A process for the preparation of a targetable diagnostic and/or therapeutically active agent as defined in claim 1 which comprises either coupling or linking at least one vector to a reporter comprising gas-filled microbubbles stabilised by monolayers of film-forming surfactant or generating gas-filled reporter microbubbles using film-forming surfactant having at least one vector attached thereto.

27. A process as claimed in claim 26 wherein a therapeutic compound is also combined with the reporter.

28. A process as claimed in claim 27 wherein a therapeutic compound containing thiol groups is linked to thiol group-containing surfactant monolayers stabilising the gas-filled microbubbles of the reporter by reaction under oxidative conditions so as to generate disulphide groups.

29. Use of an agent as claimed in any of claims 1 to 21 as a targetable ultrasound contrast agent.

30. A method of generating enhanced images of a human or non-human animal body which comprises administering to said body an agent as claimed in any of claims 1 to 21 and generating an ultrasound, magnetic resonance, X-ray, radiographic or light image of at least a part of said body.

31. A method as claimed in claim 30 which comprises the steps:

i) administering to said body a pre-targeting vector having affinity for a selected target; and thereafter

ii) administering an agent as claimed in any of claims 1 to 21, said agent comprising a vector having affinity for said pre-targeting vector.

